## CLAIMS

## A stent comprising:

a non-woven tubular element having a plurality of openings therein, the tubular element comprising a plurality of interconnected members and at least one

- 5 frangible restraining member which connects at least two interconnected members and is disposed between and not about the at least two interconnected members, at least a portion of the stent constructed and arranged to self-expand upon breaking of the at least one frangible restraining member.
- The stent of claim 1 wherein the portion of the stent which is constructed and
   arranged to self-expand upon breaking of the frangible restraining member is made of a shape-memory material.
  - The stent of claim 2 wherein the shape memory material is from the group consisting of shape-memory metals and shape-memory plastics.
- The stent of claim 1 wherein the entirety of the stent is constructed and arranged
   to self-expand upon breaking of the frangible restraining member.
  - The stent of claim 1 wherein the plurality of interconnected members and the at least one frangible restraining member are constructed from the same material.
  - The stent of claim 1 wherein the at least one frangible restraining member is constructed from a different material than the interconnected members.
- The stent of claim 1 comprising a plurality of frangible restraining members, each
  of which extends between at least two adjacent interconnected members.
  - 8. The stent of claim 7 wherein the frangible restraining members are selected from at least one member of the group consisting of: frangible welds, frangible glues, frangible solder, and any combination thereof.
- 25 9. The stent of claim 7 wherein the frangible restraining members are distributed uniformly throughout the stent.
  - 10. The stent of claim 7 wherein the frangible restraining members are distributed about at least one end of the stent.
- 11. The stent of claim 7 wherein the stent is capable of withstanding radially and/or 30 axially outward pressures of up to 2 atmospheres without breakage of the frangible restraining members.

- 12. The stent of claim 7 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 5 atmospheres without breakage of the frangible restraining members.
- 13. The stent of claim 7 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 12 atmospheres without breakage of the frangible restraining members.
  - 14. The stent of claim 1 wherein the frangible restraining members includes a circumferential extending component.
- 15. The stent of claim 1 wherein the frangible restraining member includes a curved 10 portion.
  - 16. The stent of claim 7 wherein the plurality of frangible restraining member are arranged to form one or more helical bands.
  - 17. A stent comprising a generally tubular body of non-woven elements and at least one frangible restraining member disposed about at least a portion of the tubular body,
- 15 the at least one frangible restraining member made of the same material as the tubular body, at least a portion of the stent capable of self-expanding upon breaking of the at least one frangible restraining member.
  - 18. The stent of claim 17 wherein the generally tubular body and the at least one frangible restraining member are made of the same material.
- 20 19. The stent of claim 18 wherein the generally tubular body and the at least one frangible restraining member are made of the same metals.
  - 20. The stent of claim 17 wherein the generally tubular body and the at least one frangible restraining member are made of different materials.
- 21. The stent of claim 17 wherein the generally tubular body and the at least one 25 frangible restraining member are made of different metals.
  - 22. The stent of claim 17 wherein the at least one frangible restraining member is helical wound about the tubular body.
  - 23. The stent of claim 17 wherein the at least one frangible restraining member is in the form of a band disposed at least partially about the circumference of the tubular
- 30 member.
  - 24. The stent of claim 17 comprising a plurality of frangible restraining members.

- 25. The stent of claim 17 wherein the at least one frangible restraining member is interweaved through the tubular body.
- 26. The stent of claim 17 where the entirety of the stent is capable of self-expanding upon breaking of the at least one frangible restraining member.
- 5 27. The stent of claim 17 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 2 atmospheres without breakage of the at least one frangible restraining member.
- 28. The stent of claim 17 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 5 atmospheres without breakage of the at least one frangible restraining member.
  - 29. The stent of claim 17 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 12 atmospheres without breakage of the at least one frangible restraining member.
- 30. A stent comprising a generally tubular body and a frangible restraining member disposed about at least a portion of the tubular body, at least a portion of the stent capable of self-expanding upon breaking of the frangible restraining member, the frangible restraining member at least partially constructed from metal, plastic or a combination thereof.
- 31. The stent of claim 30 wherein the frangible restraining member is helical wound 20 about the tubular body.
  - 32. The stent of claim 30 wherein the frangible restraining member is in the form of a band disposed about the circumference of the tubular member.
  - 33. The stent of claim 30 comprising a plurality of frangible restraining members.
  - 34. The stent of claim 30 where the entirety of the stent is capable of self-expanding
- 25 upon breaking of the frangible restraining member.
  - 35. The stent of claim 30 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 2 atmospheres without breakage of the frangible restraining member.
- 36. The stent of claim 30 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 5 atmospheres without breakage of the frangible restraining member.

- 37. The stent of claim 30 wherein the stent is capable of withstanding radially and/or axially outward pressures of up to 12 atmospheres without breakage of the frangible restraining member.
- 38. A stent formed of a plurality of interconnected struts, the interconnected struts
   5 including temporary struts and permanent struts, the temporary struts but not the
   permanent struts breaking upon the application of a predetermined radially and/or axially
  - 39. The stent of claim 38 wherein the predetermined radially and/or axially outward pressure is in excess of 2 atmospheres.
- 0 40. The stent of claim 38 wherein the predetermined radially and/or axially outward pressure is in excess of 12 atmospheres.
  - 41. A method of delivering a stent to a desired bodily location comprising the steps of:
- (a) providing a catheter with an expandable member and a stent as in claim 1
   15 disposed thereabout;
  - (b) inserting the stent and catheter in a bodily vessel and delivering the stent to the desired bodily location;
  - (c) expanding the expandable member to break the at least one frangible restraining member; and thereafter
- 20 (d) allowing the stent to self-expand.

outward pressure to the stent.

- 42. The method of claim 41 further comprising the step of:
  - (e) seating the stent into the desired body location.
- 43. A method of delivering a stent to a desired bodily location comprising the steps of:
- 25 (a) providing a catheter with an expandable member and a stent as in claim 17 disposed thereabout:
  - (b) inserting the stent and catheter in a bodily vessel and delivering the stent to the desired bodily location;
- (c) expanding the expandable member to break the at least one frangible 30 restraining member; and thereafter
  - (d) allowing the stent to self-expand.

- 44. A method of delivering a stent to a desired bodily location comprising the steps of:
- (a) providing a catheter with an expandable member and a stent as in claim
   30 disposed thereabout;
- 5 (b) inserting the stent and catheter in a bodily vessel and delivering the stent to the desired bodily location;
  - (c) expanding the expandable member to break the at least one frangible restraining member; and thereafter
    - (d) allowing the stent to self-expand.
- 10 45. A method of delivering a stent to a desired bodily location comprising the steps of:
  - (a) providing a catheter with an expandable member and a stent as in claim
     38 disposed thereabout;
- (b) inserting the stent and catheter in a bodily vessel and delivering the stent
   to the desired bodily location;
  - expanding the expandable member to break the at least one frangible restraining member; and thereafter
    - (d) allowing the stent to self-expand.

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